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| Serial No. 10/676,862 | | Filing Date September 30, 2003 | | Examiner | Case No. 10519-112 Group Art Unit |
| Inventor(s) So et al. | | | | | |
| Title of Invention Method and System for Temperature Compensation for Memory Cells with Temperature-Dependent Behavior | | | | | |

TO THE COMMISSIONER FOR PATENTS

Transmitted herewith is Transmittal Letter (in duplicate); Information Disclosure Statement; Form PTO 1449; 10 References; and Postcard Receipt.

- ☐ Small entity status of this application under 37 CFR § 1.27 has been established by verified statement previously submitted.
- ☐ A verified statement to establish small entity status under 37 CFR §§ 1.9 and 1.27 is enclosed.
- ☐ Petition for a month extension of time.
- ☒ No additional fee is required.
- ☐ The fee has been calculated as shown below:

| | | | | | Small Entity | | or | Other Than Small Entity | |
|---|----------------------------------|-------|---------------------------------|---------------|-----------------|-----------|----|-------------------------|-----------|
| | Claims Remaining After Amendment | | Highest No. Previously Paid For | Present Extra | Rate | Add'l Fee | | Rate | Add'l Fee |
| Total | | Minus | | | x \$9= | | | x \$18= | |
| Indep. | | Minus | | | x 42= | | | x \$84= | |
| First Presentation of Multiple Dep. Claim | | | | | +\$140= | | | +\$280= | |
| | | | | | Total add'l fee | \$ | | Total add'l fee | \$ |

- ☐ Please charge Deposit Account No. 23-1925 (BRINKS HOFER GILSON & LIONE) in the amount of \$____. A duplicate copy of this sheet is enclosed.
- ☐ A check in the amount of \$ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 associated with this communication or credit any overpayment to Deposit Account No. 23-1925. A duplicate copy of this sheet is enclosed.
- ☒ I hereby petition under 37 CFR § 1.136(a) for any extension of time required to ensure that this paper is timely filed. Please charge any associated fees which have not otherwise been paid to Deposit Account No. 23-1925. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

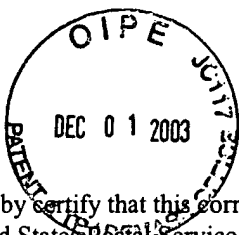
Joseph F. He
Registration No. 41,070
Attorney for Applicant

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents
P.O. Box 1450, Alexandria, VA 22313-1450, on November 25, 2003.

Date: November 25, 2003

Signature:



I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 on November 25, 2003
Date of Deposit

Joseph F. Hetz - Reg. No. 41,070

Name of Applicant, Assignee or
Registered Representative

[Signature]
Signature

Patent
Our Case No. 10519-112

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
So et al)
Serial No.: 10/676,862)
Filed: September 30, 2003)
For: Method and System for)
Temperature Compensation for)
Memory Cells with Temperature-)
Dependent Behavior)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

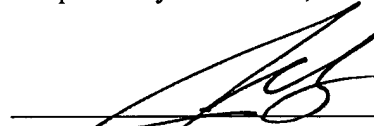
Pursuant to the obligation under 37 C.F.R. § 1.56 and in conformance with 37 C.F.R. §§ 1.97-1.99, Applicants hereby submit documents A1-A58 listed on the attached form PTO-1449 for consideration by the Examiner. In accordance with the August 5, 2003 OG Notice, copies of the U.S. patents and patent application publications are not provided. Copies of the ten other art

documents are enclosed herewith. Applicants request that the Examiner review the entire disclosure of these documents and make them of record.

The filing of this Information Disclosure Statement does not constitute an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b). Further, Applicants reserve the right to contest that any of the information submitted herewith is prior art against the present application.

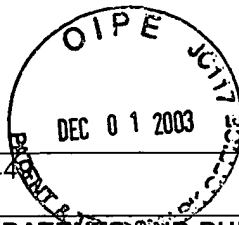
Dated: November 25, 2003

Respectfully submitted,



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| FORM PTO-1449 | SERIAL NO. 10/676,862 | CASE NO. 10519-112 |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT | FILING DATE September 30, 2003 | GROUP ART UNIT |
| (use several sheets if necessary) | APPLICANT(S): So et al. | |

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER <small>Number-Kind Code (if known)</small> | DATE | NAME | CLASS/ SUBCLASS | FILING DATE |
|---------------------|-----|--|----------|--------------------|--------------------|----------------|
| | A1 | 5,784,328 | 07/1998 | Irrinki et al. | | |
| | A2 | 5,149,199 | 09/1992 | Kinoshita et al. | | |
| | A3 | 5,977,746 | 11/1999 | Hershberger et al. | | |
| | A4 | 5,890,100 | 03/1999 | Crayford | | |
| | A5 | US 2003/0046020 A1 | 03/2003 | Scheuerlein | | |
| | A6 | 6,525,953 B1 | 02/2003 | Johnson | | |
| | A7 | 6,185,121 B1 | 02/2001 | O'Neill | | |
| | A8 | 5,652,722 | 07/1997 | Whitefield | | |
| | A9 | 6,246,610 B1 | 06/2001 | Han et al. | | |
| | A10 | US/2002/0136045 A1 | 09/2002 | Scheuerlein | | |
| | A11 | US/2002/0136047 A1 | 09/2002 | Scheuerlein | | |
| | A12 | 5,835,396 | 11/1998 | Zhang | | |
| | A13 | 6,034,882 | 03/2000 | Johnson et al. | | |
| | A14 | 6,420,215 B1 | 07/2002 | Knall et al. | | |
| | A15 | 5,923,588 | 07/1999 | Iwahashi | | |
| | A16 | 6,407,953 B1 | 06/2002 | Cleeves | | |
| | A17 | 5,818,748 | 10/1998 | Bertin et al. | | |
| | A18 | 6,157,244 | 12/2000 | Lee et al. | | |
| | A19 | 4,646,266 | 02/1987 | Ovshinsky et al. | | |
| | A20 | 6,236,587 B1 | 05/2001 | Gudesen et al. | | |
| | A21 | US/2002/0028541 A1 | 03/2002 | Lee et al. | | |
| | A22 | 6,208,545 | 03/2001 | Leedy | | |
| | A23 | 6,560,152 B1 | 05/2003 | Cernea | | |
| | A24 | 5,925,996 | 07/20/99 | Murray | | |
| | A25 | 6,055,180 | 04/25/00 | Gudesen et al. | | |
| | A26 | 5,961,215 | 10/05/99 | Lee et al. | | |
| | A27 | 5,278,796 | 02/11/94 | Tillinghast et al. | | |
| | A28 | 3,851,316 | 11/26/74 | Kodama | | |
| | A29 | 4,646,269 | 02/24/87 | Wong et al. | | |
| | A30 | 4,873,669 | 10/10/89 | Furutani et al. | | |
| | A31 | 5,383,157 | 01/17/95 | Phelan | | |
| | A32 | 4,744,061 | 05/10/88 | Takemae et al. | | |
| | A33 | 6,034,918 | 03/07/00 | Farmwald et al. | | |
| | A34 | 6,185,712 | 02/06/01 | Kirihata et al. | | |
| | A35 | 6,070,222 | 05/30/00 | Farmwald et al. | | |
| | A36 | 6,212,121 | 04/03/01 | Ryu et al. | | |

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| EXAMINER | DATE CONSIDERED |
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| FORM PTO-1449 | DEC 01 2003 | SERIAL NO. 10/676,862 | CASE NO. 10519-112 |
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|---------------------|-----|--|------------|--------------------|--------------------|----------------|
| | A37 | 4,698,788 | 10/06/87 | Flannagan et al. | | |
| | A38 | 5,276,649 | 01/04/94 | Hoshita et al. | | |
| | A39 | 6,385,074 B1 | 05/2002 | Johnson et al. | | |
| | A40 | 6,373,768 B2 | 04/16/2002 | Woo et al. | | |
| | A41 | 5,107,139 | 04/21/1992 | Houston et al. | | |
| | A42 | 5,359,571 | 10/1994 | Yu | | |
| | A43 | 5,410,512 | 04/1995 | Takase et al. | | |
| | A44 | 5,940,340 | 08/1999 | Ware et al. | | |
| | A45 | 4,592,027 | 05/1986 | Masaki | | |
| | A46 | US 2003/0043643 A1 | 03/2003 | Scheuerlein et al. | | |
| | A47 | 6,507,238 | 01/2003 | Yang | | |
| | A48 | 6,577,549 | 06/2003 | Tran et al. | | |

| EXAMINER INITIAL | OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.) | |
|---------------------|--|--|
| | A49 | "A 14ns 1Mb CMOS SRAM with Variable Bit-Organization," Wada et al., 1988 IEEE International Solid-State Circuits Conference, pages 252-253 (February 19, 1988). |
| | A50 | "Partial Selection of Passive Element Memory Cell Sub-Arrays for Write Operation," U.S. Patent Application Serial No. 09/748,649, filed December 22, 2000; inventors: Roy E. Scheuerlein and Matthew P. Crowley. |
| | A51 | "64M x 8 Bit NAND Flash Memory," Samsung Electronics (October 27, 2000). |
| | A52 | "How Flash Memory Works," wysiwyg://8/http://www.howstuffworks.com/flash-memory.htm?printable=1, 5 pages (1998). |
| | A53 | "Datalight FlashFX™ 4.06 User's Guide," page 11 (August 2000). |
| | A54 | "How Does TrueFFS® manage Wear Leveling?," http://www.m-sys.com/content/information/calclnfo.asp , 2 pages (printed October 5, 2001) |
| | A55 | "A CMOS Bandgap Reference Circuit with Sub-1V Operation," IEEE Journal of Solid-State Circuits, Vol. 34, No. 5, May 1999, pages 670-674. |
| | A56 | "Sub-1V CMOS Proportional to Absolute Temperature References," IEEE Journal of Solid-State Circuits, Vol. 38, No.1, January 2003, pages 85-89. |
| | A57 | "The flash memory read path: building blocks and critical aspects," Micheloni et al., Proceedings of the IEEE, Vol. 91, No. 4, April 2003, pages 537-553. |
| | A58 | "A current-based reference-generations scheme for 1T-1C ferroelectric random-access memories," Siu et al., IEEE Journal of Solid-State Circuits, Volume 38 Issue 3, March 2003, pages 541-549. |

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